



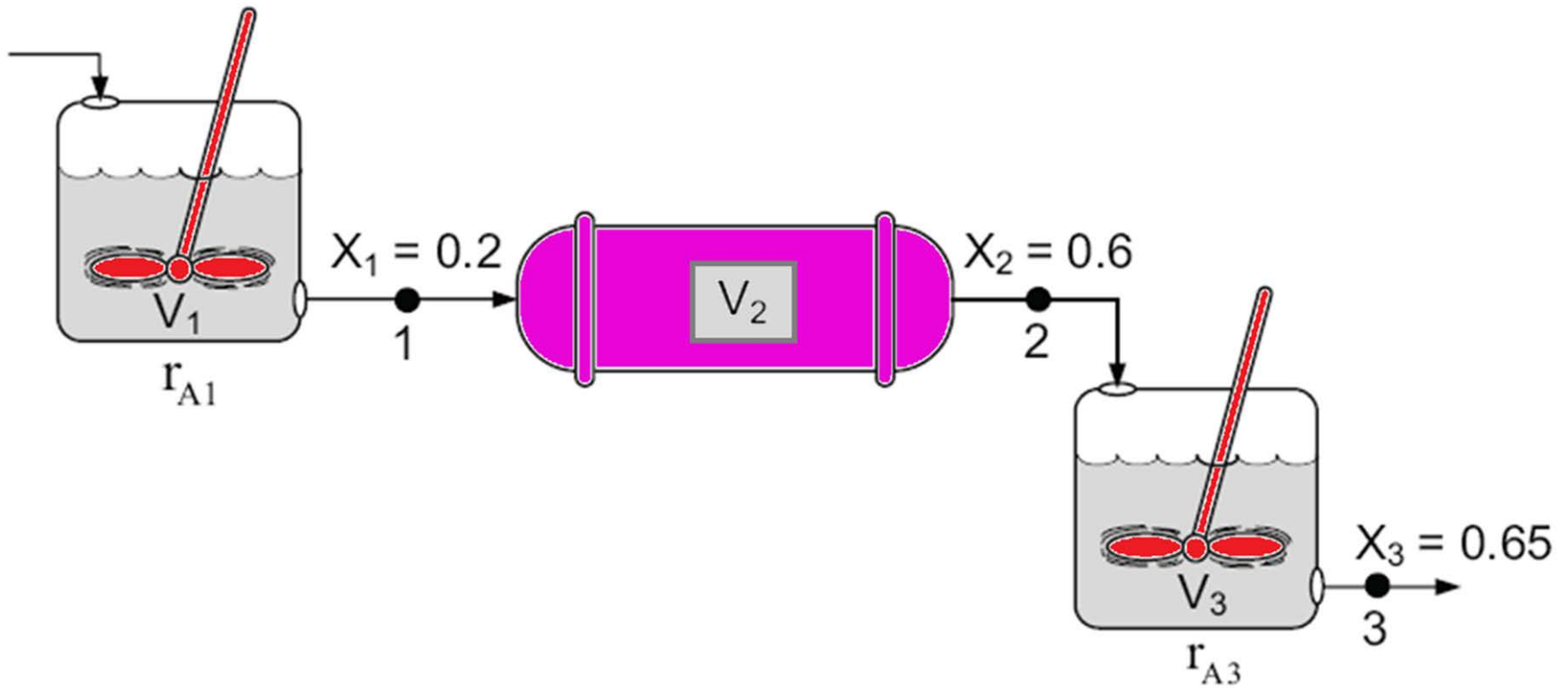
FKITMCMXIX

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Dimenzioniranje reaktora u sustavima iz više reaktora različitih volumena

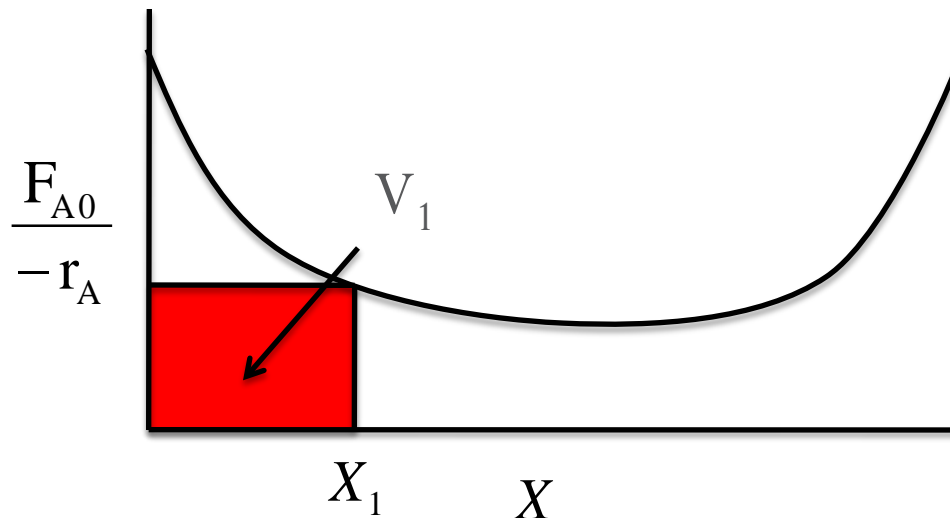
Primjer - Sustavi iz više reaktora



Reaktor 1

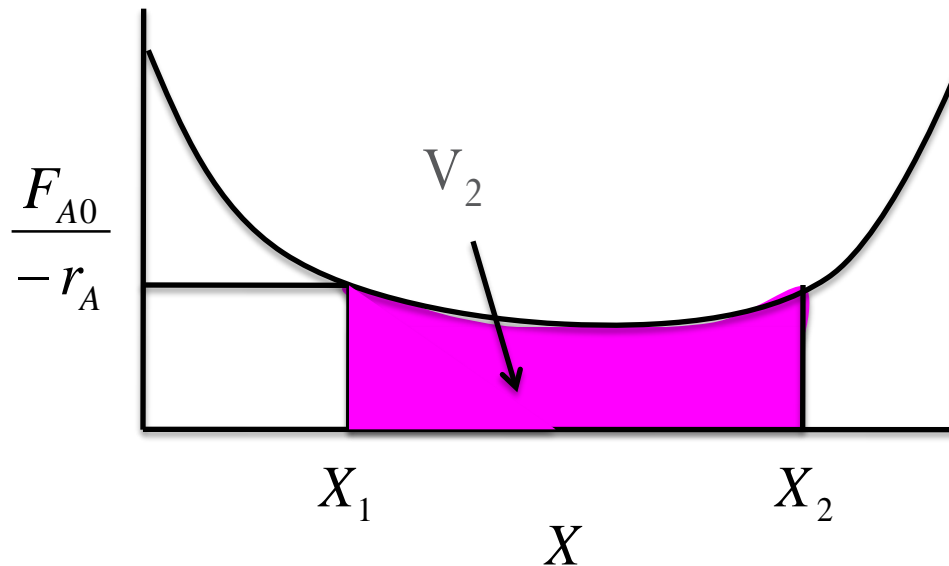
$$F_{A1} = F_{A0} - F_{A0} X_1$$

$$V_1 = \frac{F_{A0} - F_{A1}}{-r_{A1}} = \frac{F_{A0} - (F_{A0} - F_{A0} X_1)}{-r_{A1}} = \frac{F_{A0} X_1}{-r_{A1}}$$



Reaktor 2

$$V_2 = \int_{X_1}^{X_2} \frac{F_{A0}}{-r_A} dX$$

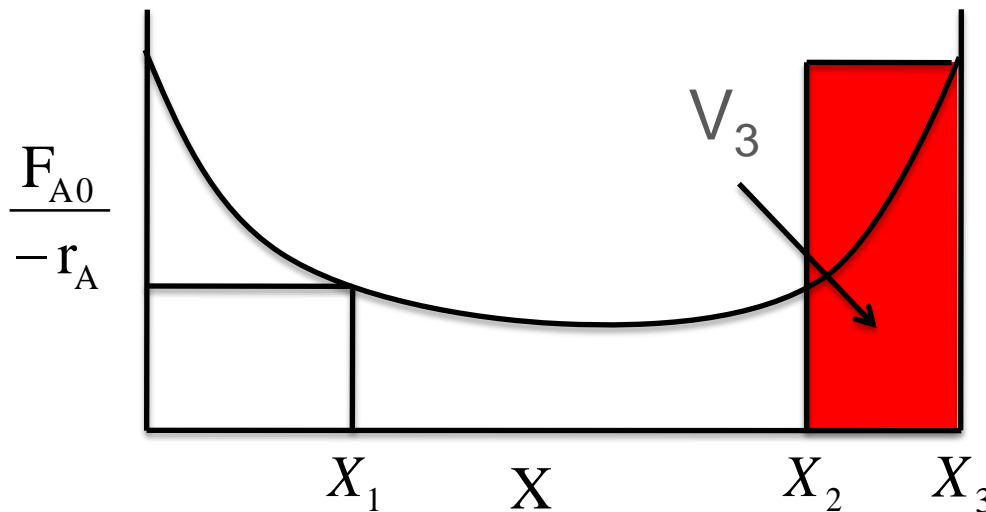


Reaktor 3

$$F_{A2} - F_{A3} + r_{A3}V_3 = 0$$

$$(F_{A0} - F_{A0}X_2) - (F_{A0} - F_{A0}X_3) + r_{A3}V_3 = 0$$

$$V_3 = \frac{F_{A0}(X_3 - X_2)}{-r_{A3}}$$



Primjer - Sustavi iz više reaktora

